



ATTORNEY DOCKET NO. 07121.0003U1
SERIAL NO. 09/990,874
CONFIRMATION NO. 2196
Page 1 of 2

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	ATTORNEY DOCKET NO.: 07121.0003U1	SERIAL NO. 09/990,874 CONFIRMATION NO. 2196
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	FILING DATE: November 21, 2001	GROUP: 1744

U.S. PATENT DOCUMENTS							
EXAMINER INITIALS		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mm	A1	5,866,408	02/02/99	Sung et al.			
	A2	5,759,840	06/02/98	Sung et al.			
	A3	5,405,769	04/11/95	Campbell et al.			
	A4	5,078,802	01/07/92	Imanaka et al.			
mm							

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FOREIGN PATENT DOCUMENTS							
mm	A5	EP0473545 (B1)	03/04/92	Casimir-Schenkel			
	A6	WO 94/24270	10/27/94	Campbell et al.			
mm	A7	WO 95/12668	05/11/95	Wilson et al.			

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
mm	A8	Arase et al. Stabilization of xylznzse by random mutagenesis. <i>FEBS Lett.</i> 316:123-127 (1993)
	A9	Chandra et al. A Cellulase-Free Xylanase From Alkali-Tolerant <i>Aspergillus fischeri</i> Fxn1. <i>Biotechnol. Lett.</i> 17:309-314 (1995)
	A10	Fisk et al. Development of A Method for the Stabilization and Formulation of Xylanase from <i>Trichoderma</i> Using Experimental Design. <i>Stability and Stabilization of Enzymes</i> published by Elsevier Science Publishers B. V. pp323-328 (1993)
	A11	Gruber et al. Thermophilic Xylanase from <i>Thermomyces lanuginosus</i> : High-Resolution X-ray Structure and Modeling Studies. <i>Biochemistry</i> 37:13475-13485 (1998)
	A12	Irwin et al. Characterization and Sequence of a <i>Thermomonospora fusca</i> Xylanase. <i>Environ. Microbiol.</i> 60(3):763-770 (1994)
	A13	Kinoshita et al. Cloning of the <i>xynNB</i> Gene Encoding Xylanase B from <i>Aspergillus niger</i> and Its expression in <i>Aspergillus kawachii</i> . <i>J. Fermentation and Bioengineering</i> 79(5):422-428 (1995)
	A14	Krengel et al. Three-dimensional Structure of Endo-1, 4- β -xylanase I from <i>Aspergillus niger</i> : Molecular Basis for its Low pH Optimum. <i>J. Mol. Biol.</i> 263:70-78 (1996)
mm	A15	Lee et al. Purification and Characterization of Two Endoxylanases from <i>Clostridium acetobutylicum</i> ATCC 824. <i>Appl. Environ. Microbiol.</i> 53(4):644-650 (1987)



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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mmk	A16	Lüthi et al. Xylanase from the Extremely Thermophilic Bacterium "Caldocellum saccharolyticum": Overexpression of the Gene in <i>Escherichia coli</i> and Characterization. <i>Appl. Environ. Microbiol.</i> 56(9):2677-2683 (1990)
	A17	Mathrani. Thermophilic and alkalophilic xylanases from several Dictyoglomus isolates. <i>Appl. Microbiol. Biotechnol.</i> 38:23-27 (1992)
	A18	Misset, O. Stability of Industrial Enzymes. <i>Stability and Stabilization of Enzymes</i> published by Elsevier Science Publishers B. V. pp 111-131 (1993)
	A19	Nissen et al. Xylanases for the Pulp and Paper Industry. <i>Xylans and Xylanases</i> published by Elsevier, Amsterdam, pp 325-337 (1992)
	A20	Sakka et al. Nucleotide Sequence of the <i>Clostridium stercorarium xynA</i> Gene Encoding Xylanase A: Identification of Catalytic and Cellulose Binding Domains. <i>Biosci. Biotech. Biochem.</i> 57(2):273-277 (1993)
	A21	Simpson et al. An extremely thermostable xylanase from the thermophilic eubacterium <i>Thermotoga</i> . <i>Biochem. J.</i> 277:413-417 (1991)
	A22	Sung et al. Short synthetic oligodeoxyribonucleotide leader sequences enhance accumulation of human proinsulin synthesized in <i>Escherichia coli</i> . <i>Proc. Natl. Acad. Sci. USA</i> 83:561-565 (1986)
	A23	Sung et al. Overexpression of the <i>Bacillus subtilis</i> and <i>circulans</i> Xylanases in <i>Escherichia coli</i> . <i>Protein Expression Purif.</i> 4:200-206 (1993)
	A24	Sung et al. Expression of <i>Trichoderma reesei</i> and <i>Trichoderma viride</i> xylanases in <i>Escherichia coli</i> . <i>Biochem. Cell. Biol.</i> 73:253-259 (1995)
	A25	Sunna et al. Xylanolytic Enzymes from Fungi and Bacteria. <i>Crit. Rev. Biotech.</i> 17(1):39-67 (1997)
	A26	Tolan et al. The Use of Enzymes to Decrease the Cl ₂ Requirements in Pulp Bleaching. <i>Pulp & Paper Canada</i> 93:116-119 (1992)
	A27	Turenen et al. A combination of weakly stabilizing mutations with a disulfide bridge in the α -helix region of <i>Trichoderma reesei</i> endo-1, 4- β -xylanase II increases the thermal stability through synergism. <i>J. Biotech</i> 88:37-46 (2001)
	A28	Wakarchuck et al. Thermostabilization of the <i>Bacillus circulans</i> xylanase by the introduction of disulfide bonds. <i>M. Protein Engineering</i> 7(11):1379-1386 (1994)
	A29	Winterhalter and Liebl. Two extremely Thermkostable Xylanases of the Hyperthermophilic Bacterium <i>Thermotoga maritima</i> MSB8. <i>Appl. Environ. Bicrobiol.</i> 61(5):1810-1815 (1995)
	A30	Zappe et al. Cloning and expression of a xylanase gene from <i>Clostridium acetobutlicum</i> P262 in <i>Escherichia coli</i> . <i>Appl. Microbiol. Biotechnol.</i> 27:57-63 (1987)
mmk	A31	Zappe et al. Nucleotide sequence of a <i>Clostridium acetobutylicum</i> P262 xylanase gene (<i>xynB</i>) <i>Nucl. Acids Res.</i> 18(8):2179 (1990)

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